

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P675157

Luminaire Tested: **CCW-SA-1C-827-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675157  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-827-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T4FT distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

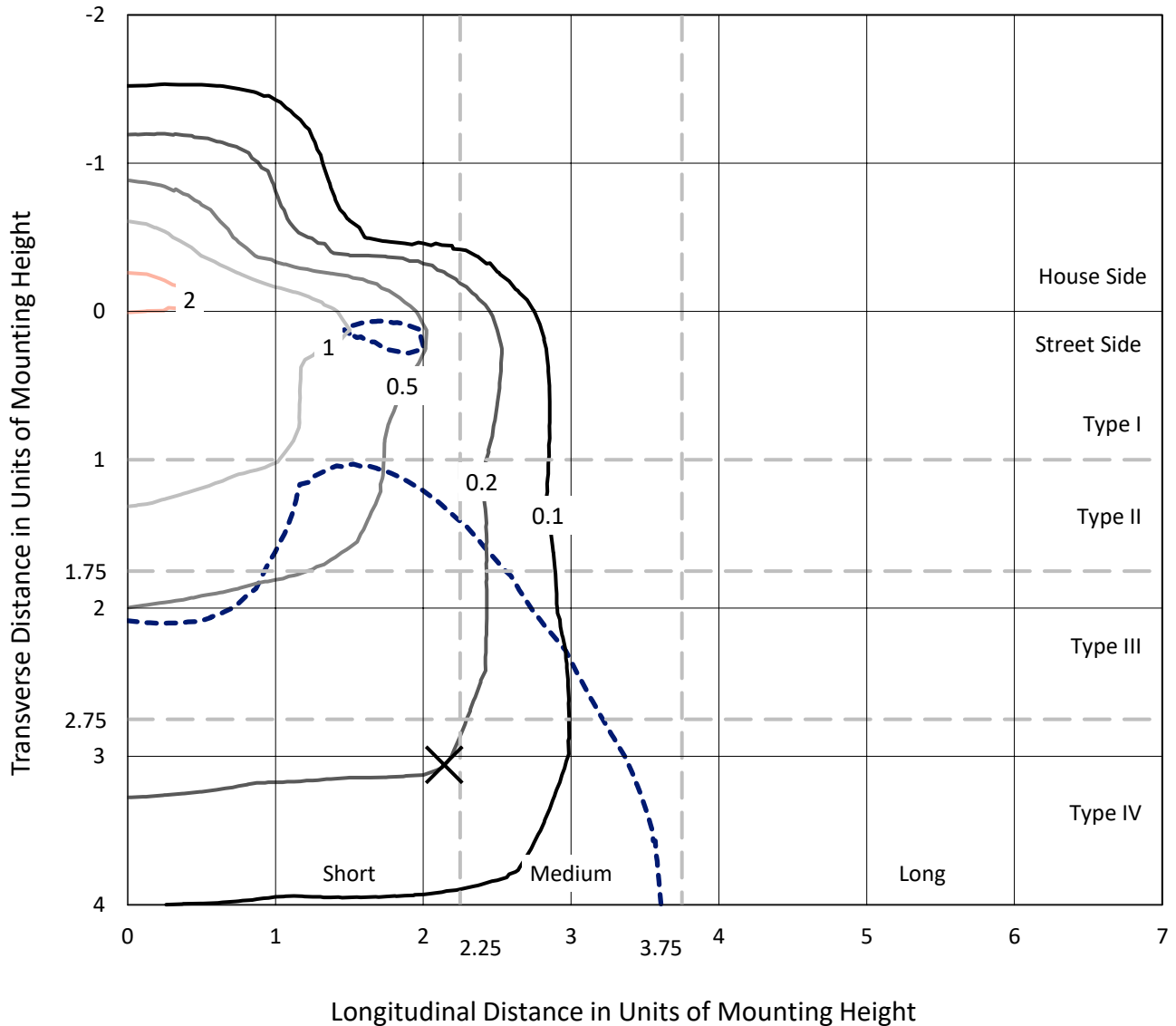
Lumens per Lamp: N/A  
Luminaire Lumens: 3321.5 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

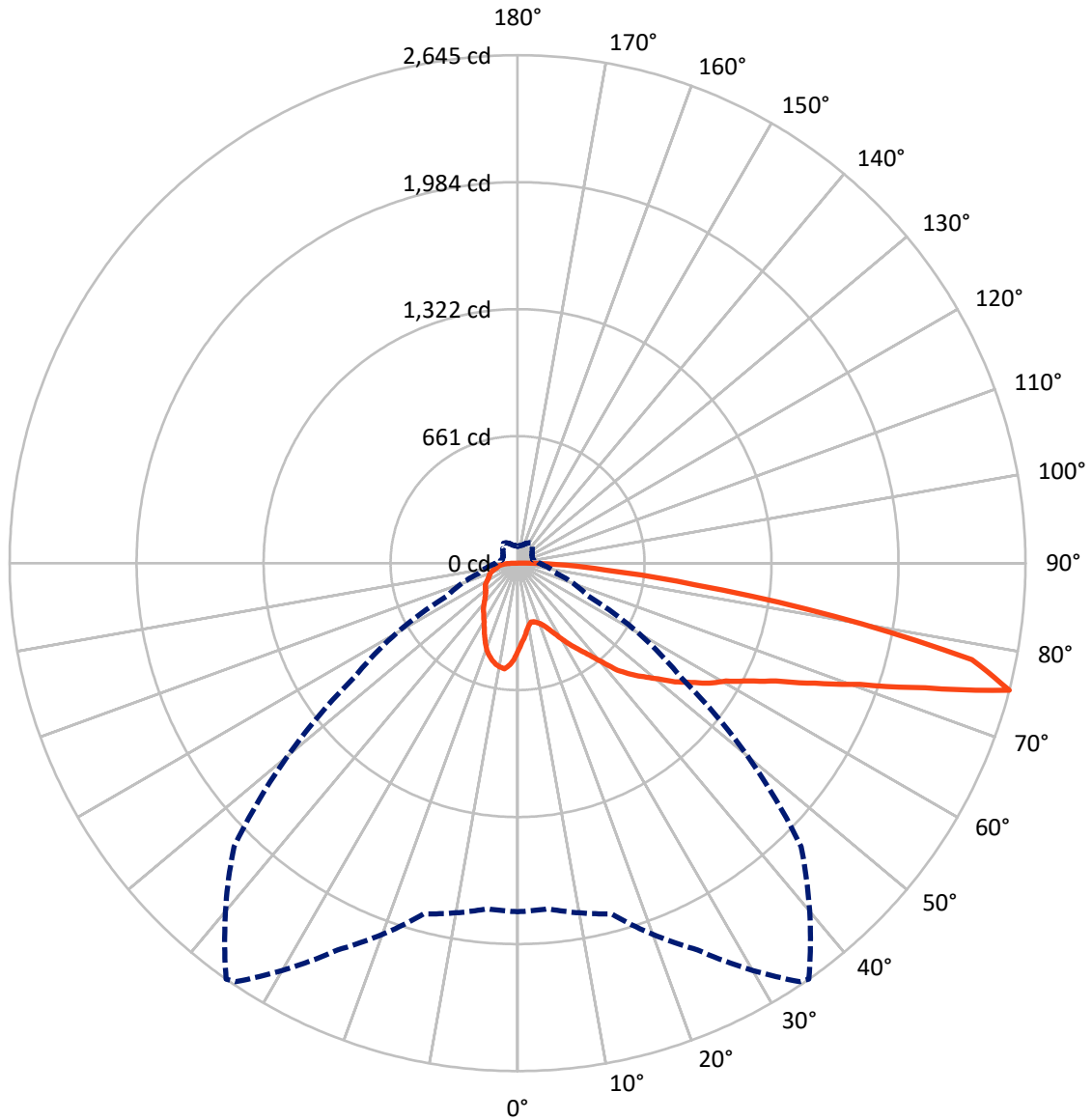
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	763.4	0.0	763.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2558.1	0.0	2558.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	3321.5	0.0	3321.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	1.3
10°-20°	125.8	3.8
20°-30°	208.8	6.3
30°-40°	309.5	9.3
40°-50°	446.3	13.4
50°-60°	613.8	18.5
60°-70°	758.1	22.8
70°-80°	693.6	20.9
80°-90°	122.1	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3321.5	100.0
0°-180°	3321.5	100.0



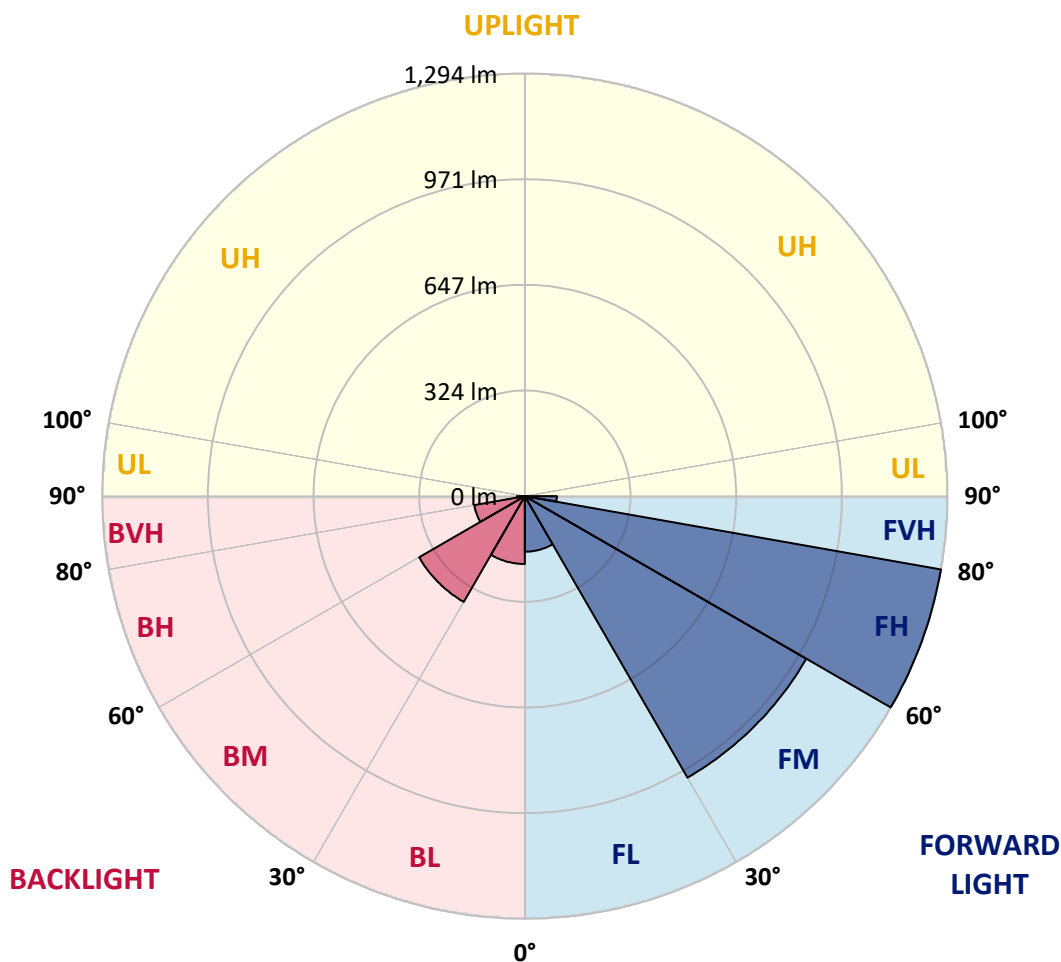
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.2	5.1			
FM (30°-60°)	995.6	30.0			
FH (60°-80°)	1294.3	39.0			G1/1800
FVH (80°-90°)	98.0	3.0			G1/100
BL (0°-30°)	207.8	6.3	B1/500		
BM (30°-60°)	374.1	11.3	B1/1000		
BH (60°-80°)	157.4	4.7	B1/500		G1/500
BVH (80°-90°)	24.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	412.3	408.6	412.3	414.7	414.7	414.7	418.4	429.4	436.7	441.6	450.2
5°	369.4	370.7	373.1	379.2	382.9	385.3	391.5	404.9	415.9	431.8	450.2
7.5°	331.5	334.0	337.6	343.7	352.3	351.1	364.5	382.9	403.7	424.5	451.4
10°	311.9	316.8	318.1	319.3	327.8	327.8	346.2	367.0	392.7	419.6	451.4
12.5°	315.6	315.6	311.9	310.7	315.6	314.4	330.3	354.8	382.9	420.8	456.3
15°	326.6	326.6	319.3	311.9	319.3	316.8	330.3	349.9	382.9	422.0	466.1
17.5°	341.3	342.5	334.0	321.7	324.2	325.4	335.2	353.5	382.9	424.5	479.5
20°	370.7	364.5	351.1	331.5	340.1	336.4	351.1	367.0	390.2	434.3	499.1
22.5°	396.4	396.4	370.7	353.5	354.8	354.8	368.2	381.7	401.2	447.7	513.8
25°	437.9	435.5	403.7	378.0	380.4	381.7	389.0	404.9	419.6	455.1	532.1
27.5°	490.5	484.4	452.6	423.3	413.5	417.1	420.8	433.0	436.7	467.3	554.2
30°	546.8	538.3	511.3	464.9	460.0	461.2	455.1	462.4	457.5	486.9	576.2
32.5°	582.3	582.3	556.6	522.4	508.9	508.9	488.1	493.0	493.0	505.2	615.3
35°	612.9	610.4	593.3	567.6	559.0	554.2	533.4	540.7	528.5	540.7	670.4
37.5°	659.4	652.0	644.7	627.6	610.4	606.8	595.7	600.6	583.5	577.4	732.8
40°	713.2	709.5	702.2	694.8	677.7	676.5	664.3	669.1	650.8	627.6	795.1
42.5°	792.7	781.7	758.4	752.3	756.0	760.9	756.0	747.4	714.4	685.0	862.4
45°	872.2	855.1	811.1	801.3	829.4	825.7	846.5	842.9	789.0	742.5	933.4
47.5°	923.6	908.9	873.4	867.3	879.6	884.4	946.8	935.8	850.2	795.1	1001.9
50°	960.3	961.5	915.0	930.9	946.8	946.8	1025.1	1023.9	924.8	860.0	1091.2
52.5°	1014.1	997.0	977.4	992.1	1014.1	1026.4	1123.0	1096.1	971.3	915.0	1191.5
55°	1042.3	1034.9	1017.8	1043.5	1090.0	1096.1	1198.8	1178.0	1023.9	979.9	1294.3
57.5°	1053.3	1059.4	1087.5	1098.5	1163.4	1179.3	1267.3	1238.0	1072.8	1060.6	1373.8
60°	1102.2	1093.6	1131.6	1175.6	1238.0	1246.5	1353.0	1289.4	1120.5	1113.2	1399.5
62.5°	1201.3	1179.3	1200.1	1252.7	1339.5	1350.5	1443.5	1357.9	1141.3	1148.7	1398.2
65°	1345.6	1329.7	1299.1	1340.7	1463.1	1479.0	1549.9	1416.6	1135.2	1136.4	1299.1
67.5°	1515.7	1490.0	1458.2	1483.9	1633.1	1669.8	1679.6	1442.3	1092.4	1067.9	1056.9
70°	1664.9	1647.8	1627.0	1671.0	1879.0	1892.5	1841.1	1426.4	973.7	857.5	704.6
72.5°	1804.4	1795.8	1808.0	1973.2	2211.7	2220.3	1992.8	1326.1	769.5	519.9	327.8
75°	1815.4	1806.8	1891.2	2222.7	2628.9	2644.8	2087.0	1039.8	406.1	211.6	138.2
77.5°	1229.4	1255.1	1412.9	1946.3	2414.8	2418.5	1706.5	483.2	167.6	124.8	96.6
80°	302.2	335.2	532.1	1006.8	1628.2	1668.6	934.6	162.7	110.1	95.4	72.2
82.5°	110.1	119.9	216.5	455.1	915.0	930.9	326.6	88.1	79.5	73.4	52.6
85°	52.6	53.8	102.8	223.9	462.4	457.5	117.4	52.6	57.5	50.2	31.8
87.5°	22.0	22.0	45.3	104.0	204.3	198.2	37.9	24.5	33.0	29.4	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	456.3	458.7	468.5	475.9	483.2	489.3	499.1	499.1	505.2	505.2	505.2
5°	455.1	468.5	484.4	501.6	512.6	523.6	533.4	534.6	538.3	543.1	544.4
7.5°	460.0	473.4	499.1	523.6	537.0	541.9	554.2	550.5	550.5	550.5	554.2
10°	469.7	484.4	519.9	541.9	551.7	552.9	549.3	546.8	539.5	537.0	533.4
12.5°	477.1	502.8	538.3	555.4	551.7	548.0	539.5	527.2	518.7	516.2	516.2
15°	495.4	521.1	554.2	560.3	554.2	534.6	523.6	510.1	502.8	491.8	496.7
17.5°	511.3	540.7	570.1	562.7	550.5	519.9	504.0	484.4	474.6	462.4	462.4
20°	532.1	559.0	584.7	565.2	538.3	505.2	479.5	455.1	441.6	429.4	431.8
22.5°	555.4	579.8	593.3	555.4	519.9	482.0	446.5	423.3	406.1	398.8	401.2
25°	573.7	600.6	598.2	539.5	497.9	452.6	413.5	391.5	387.8	380.4	380.4
27.5°	597.0	625.1	594.5	519.9	461.2	406.1	381.7	373.1	373.1	369.4	371.9
30°	627.6	647.1	586.0	491.8	414.7	364.5	352.3	357.2	365.8	362.1	363.3
32.5°	677.7	675.3	578.6	460.0	365.8	324.2	332.7	342.5	349.9	353.5	356.0
35°	726.6	710.7	570.1	417.1	320.5	304.6	311.9	323.0	336.4	340.1	341.3
37.5°	775.6	747.4	555.4	364.5	292.4	287.5	294.8	300.9	311.9	314.4	316.8
40°	827.0	771.9	529.7	313.2	269.1	269.1	274.0	275.2	281.4	285.0	287.5
42.5°	872.2	795.1	483.2	265.5	244.7	253.2	254.4	252.0	247.1	249.6	250.8
45°	927.3	820.8	429.4	231.2	226.3	237.3	239.8	230.0	221.4	216.5	214.1
47.5°	981.1	847.7	382.9	203.1	209.2	226.3	226.3	215.3	200.6	188.4	183.5
50°	1030.0	874.7	345.0	185.9	192.1	217.7	220.2	199.4	183.5	168.8	166.4
52.5°	1112.0	919.9	305.8	172.5	182.3	211.6	210.4	192.1	171.3	155.4	154.1
55°	1184.2	965.2	254.4	159.0	172.5	203.1	206.7	184.7	156.6	141.9	139.5
57.5°	1236.8	976.2	203.1	145.6	162.7	193.3	198.2	170.0	146.8	134.6	133.3
60°	1246.5	933.4	165.1	134.6	149.2	179.8	183.5	161.5	139.5	129.7	127.2
62.5°	1201.3	851.4	140.7	124.8	138.2	166.4	173.7	151.7	132.1	123.6	122.3
65°	1098.5	731.5	123.6	116.2	130.9	156.6	165.1	144.3	126.0	118.7	117.4
67.5°	869.8	561.5	110.1	110.1	121.1	146.8	159.0	139.5	119.9	115.0	113.8
70°	568.8	337.6	100.3	101.5	113.8	138.2	151.7	133.3	112.5	111.3	108.9
72.5°	244.7	155.4	89.3	93.0	102.8	123.6	140.7	124.8	104.0	100.3	96.6
75°	112.5	94.2	80.7	83.2	91.7	108.9	127.2	115.0	96.6	90.5	86.9
77.5°	79.5	68.5	67.3	72.2	78.3	94.2	112.5	107.7	89.3	84.4	82.0
80°	58.7	52.6	56.3	61.2	64.8	86.9	106.4	99.1	82.0	74.6	71.0
82.5°	41.6	39.1	44.0	48.9	52.6	75.8	97.9	86.9	68.5	62.4	56.3
85°	24.5	25.7	30.6	33.0	36.7	56.3	82.0	69.7	52.6	40.4	39.1
87.5°	11.0	11.0	14.7	15.9	18.3	33.0	55.0	44.0	33.0	25.7	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)